IN THE CLAIMS

Claims 1-29 (cancelled)

30. (new) A method of communicating comprising the step of:

modifying at least one antenna's beam width based on received radio resource allocation instructions for signals to be transmitted and/or received by the at least one antenna.

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31. (new) The method of claim 30 where the step of modifying at least one antenna's beam width comprises the steps of:

receiving information related to at least one or any combination of the following:

(a) location of a mobile in communication with the at least one antenna;

(b) SNR of signals conveyed between the at least one antenna and the mobile;

(c) data rate of signals conveyed between the at least one antenna and the mobile;

processing the received information to generate radio resource allocation instructions; and

conveying the radio resource allocation instructions to a beamformer coupled to the at least one antenna.

32.(new) The method of claim 30 where the radio resource allocation instructions comprise information related to data rate of the signals, SNR of the signals, power level of the signals, location information of a mobile in communication with the at least one antenna and quality of service needs of a user of the mobile.

33.(new) The method of claim 30 where the at least one antenna is part of a wireless communication system and the beam width of the at least one antenna of a forward link of the communication system is modified.

34.(new) The method of claim 30 where the at least one antenna is part of a wireless communication system and the beam width of the at least one antenna of a reverse link of the communication system is modified.

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35.(new) The method of claim 33 where the at least one antenna whose beam width is modified is part of base station equipment of the communication system.

36.(new) The method of claim 33 where the at least one antenna whose beam width is modified is part of a mobile unit of the communication system.

37. (new) The method of claim 34 where the at least one antenna whose beam width is modified is part of base station equipment of the communication system.

38.(new) The method of claim 34 where the at least one antenna whose beam width is modified is part of a mobile unit of the communication system.